

## CTR Employer Survey Report

Thank you for completing your Commute Trip Reduction survey. This report contains the survey results.

**Employer Id :** E81142

**Employer :** Astronics Advanced Electronic Systems

**Worksite :**

**Street :** 12950 Willows Road Ne

**Jurisdiction :** City of Kirkland

**Survey Date :** 5/26/2015

**Survey Type :** Online

**Response Rate :** 84%

### Drive Alone & One-Way VMT Rates at this Worksite

### Employees and Survey Response Information

**Drive Alone :** 78.9%

**Reported Total Employees at Worksite:** 378

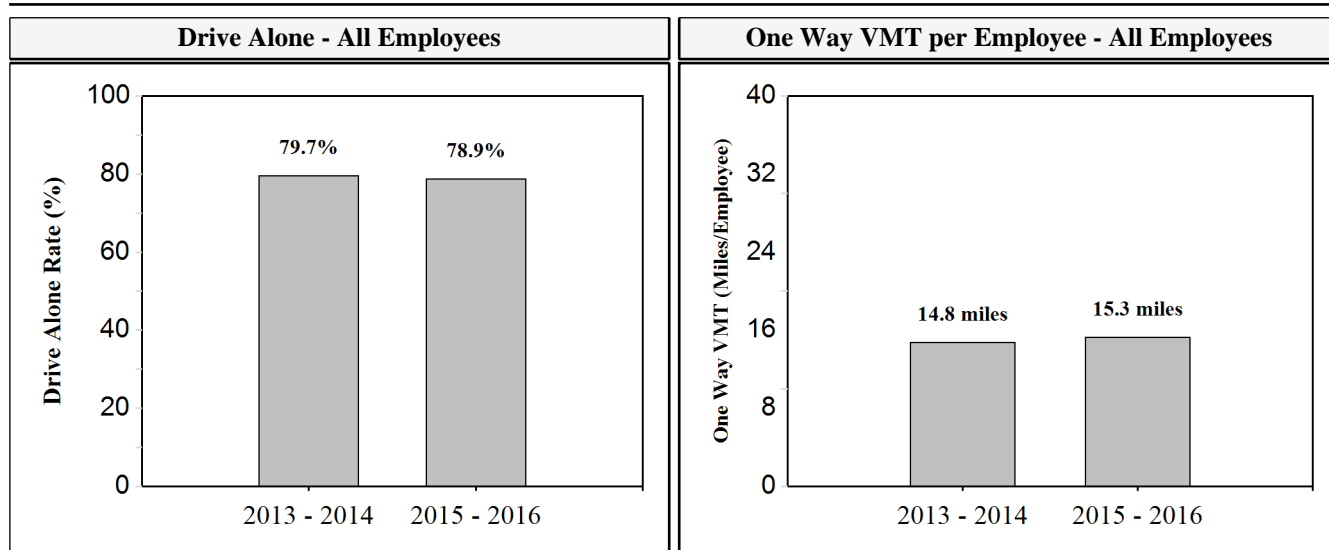
**Surveys Distributed :** 377

**One-Way VMT per employee :** 15.3

**Surveys Returned :** 318

**Surveys Returned by CTR Affected Employees :** 274

**Total Estimated CTR - Affected Employees at Worksite :** 325



### Site History and Goal

Cycle	Drive Alone - All	Drive Alone - CTR Affected	VMT / Employee - All	VMT / Employee - CTR Affected
2007 - 2008	N/A	N/A	N/A	N/A
2009 - 2010	N/A	N/A	N/A	N/A
2011 - 2012	N/A	N/A	N/A	N/A
2013 - 2014	79.7%	79.0%	14.8	14.3
2015 - 2016	78.9%	78.1%	15.3	14.5
2017 - 2018	N/A	N/A	N/A	N/A
2019 - 2020	N/A	N/A	N/A	N/A
Goal	TBD	TBD	TBD	TBD
Percent Change	-1.0%	-1.1%	3.4%	1.4%

## Comparison Between Rates With and Without Fill-In

The survey response rate is indicated on Page 1. To encourage a response rate of at least 70%, additional drive alone trips are added to survey results for worksites with a response rate of less than 70%. For these worksites it is assumed that non-responding employees between the actual response rate and 70% drive alone 5 days a week. These additional trips represent the "Fill-In" applied. Note that fill-in is not applied to a worksite's first survey in the 2007 to 2012 cycle (their baseline survey).

	2013 - 2014	2015 - 2016
Drive Alone - All Employees*	79.7%	78.9%
Drive Alone - CTR Affected Employees*	79.0%	78.1%
VMT/Employee - All Employees	14.8	15.3
VMT/Employees - CTR Affected Employees	14.3	14.5

\* Drive alone rate includes one person motorcycles.

## GHG Emissions: Total for Drive Alone, Carpools, Vanpools

### Annual Greenhouse Gas Emissions (Metric Tons CO<sub>2</sub>e) for Roundtrip Commute\*

Value	2013 - 2014	2015 - 2016
Emissions for Surveyed Employees	834	962
Estimated Emissions for Total Employment	1,133	1,143

\* Estimated based on VMT from commuters driving alone, carpooling, vanpooling, or motorcycling, without fill-in applied.

## Bus Transit Passenger Miles and Rail Transit Passenger Miles\*

Annual Transit Passenger Miles (includes Roundtrip Commute)	2013 - 2014	2015 - 2016
Bus Annual Passenger Miles - Estimated for Total Employment	7,336	13,789
Bus Annual Passenger Miles - Surveyed Employees	5,400	11,600
Ferry Annual Passenger Miles - Estimated for Total Employment	7,472	18,425
Ferry Annual Passenger Miles - Surveyed Employees	5,500	15,500
Train/Light Rail/Streetcar Annual Passenger Miles - Estimated for Total Employment	0	0
Train/Light Rail/Streetcar Annual Passenger Miles - Surveyed Employees	0	0

\* Transit passenger miles can be used to gauge changes in transit usage, and also to calculate greenhouse gas emissions from transit commute trips. However, emissions attributable to transit vary widely, depending on the efficiency/energy source of transit vehicles and transit vehicle passenger load (typically ranging from 0.1 to 0.9 pounds CO<sub>2</sub>e emissions/passenger mile). Employers are strongly encouraged to contact their local transit agencies for more precise information on GHG emissions for their transit trips. If nothing else is available, the value of 0.47 pounds (0.00021 metric tons) per passenger mile can be used to estimate CO<sub>2</sub>e emissions for bus transit, and 0.39 pounds (0.00018 metric tons) CO<sub>2</sub>e emissions per passenger mile for train/light rail/streetcar.

Q3.

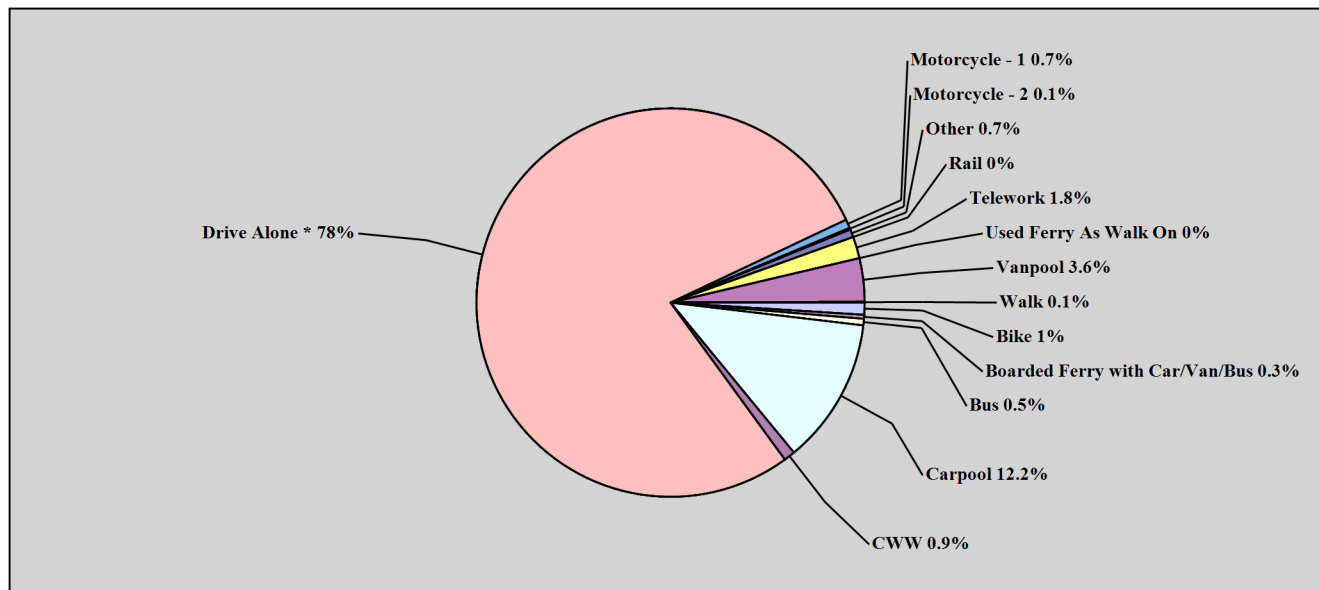
**One way, how many miles do you commute from home to your usual work location?**

**Average one-way distance home to work: 17.9 miles**

## Commute Trips By Mode - All Employees

Q.4a: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)

Mode Split - All Employees



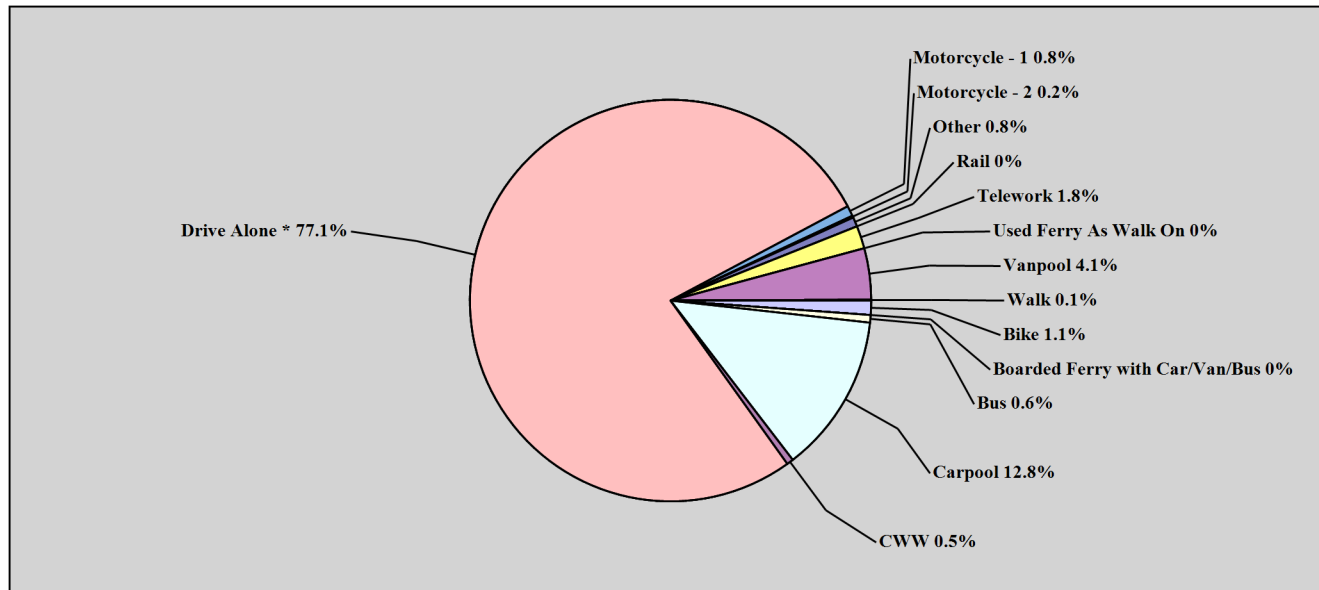
Mode	Trips During This Survey Week	% of Trips During This Survey Week	% of Trips During Previous Survey Week	Employees Who Used This Mode at Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During Previous Survey Week
Drive Alone *	1,167	78.0%	78.8%	271	85.2%	87.2%
Carpool	182	12.2%	11.7%	52	16.4%	17.4%
Vanpool	54	3.6%	3.9%	14	4.4%	4.9%
Motorcycle - 1	11	0.7%	0.9%	5	1.6%	1.1%
Motorcycle - 2	2	0.1%	0.0%	2	0.6%	0.0%
Bus	8	0.5%	0.5%	2	0.6%	0.4%
Rail	0	0.0%	0.0%	0	0.0%	0.0%
Bike	15	1.0%	2.1%	8	2.5%	5.3%
Walk	1	0.1%	0.0%	1	0.3%	0.0%
Telework	27	1.8%	0.8%	16	5.0%	3.8%
CWW	14	0.9%	0.9%	8	2.5%	3.0%
Boarded Ferry with Car/Van/Bus	5	0.3%	0.4%	2	0.6%	1.1%
Used Ferry As Walk On	0	0.0%	0.0%	0	0.0%	0.0%
Other	10	0.7%	0.2%	2	0.6%	0.8%

\* Drive alone mode includes fill-in, where applicable.

## Commute Trips By Mode - Affected Employees

Q.4a: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)

Mode Split - Affected Employees



Mode	Trips During This Survey Week	% of Trips During This Survey Week	% of Trips During Previous Survey Week	Employees Who Used This Mode at Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During Previous Survey Week
Drive Alone *	1,010	77.1%	78.0%	232	84.7%	87.7%
Carpool	168	12.8%	11.6%	48	17.5%	17.9%
Vanpool	54	4.1%	4.4%	14	5.1%	5.5%
Motorcycle - 1	11	0.8%	1.0%	5	1.8%	1.3%
Motorcycle - 2	2	0.2%	0.0%	2	0.7%	0.0%
Bus	8	0.6%	0.5%	2	0.7%	0.4%
Rail	0	0.0%	0.0%	0	0.0%	0.0%
Bike	15	1.1%	2.3%	8	2.9%	6.0%
Walk	1	0.1%	0.0%	1	0.4%	0.0%
Telework	24	1.8%	0.8%	13	4.7%	3.8%
CWW	7	0.5%	0.8%	4	1.5%	2.6%
Boarded Ferry with Car/Van/Bus	0	0.0%	0.4%	0	0.0%	1.3%
Used Ferry As Walk On	0	0.0%	0.0%	0	0.0%	0.0%
Other	10	0.8%	0.2%	2	0.7%	0.9%

\* Drive alone mode includes fill-in, where applicable.

### Alternative Modes - Number of Employees Who Used a Non-Drive Alone Mode:

Non-Drive Alone Number Of Days	Exactly this # of Employees	Exactly this % of Employees	At least # of Employees	At least % of employees
0 Day	224	70%	318	100%
1 Days	22	7%	94	30%
2 Days	8	3%	72	23%
3 Days	5	2%	64	20%
4 Days	35	11%	59	19%
5 Days	22	7%	24	8%
6 or More Days	2	1%	2	1%

### Work Schedules By Group - All Employees (This table shows the relationship between work schedule and commute mode)

Employees who worked:	Drive Alone 5 days / week		Drive Alone 3 or 4 days / week		Used Bus At Least 3 days / week		Carpooled At Least 3 days / week		Used Rail At Least 3 days / week		Vanpooled At Least 3 times / week		Biked or Walked At Least 3 Days / week		Used 'Other' Modes At Least 3 Days / week		Used Non-Drive Alone At Least 3 Days / week	
5 days a week	139	65.3%	30	14.1%	1	0.5%	23	10.8%	0	0%	7	3.3%	2	0.9%	2	0.9%	38	17.8%
4 days a week (4/10s)	7	8.5%	50	61%	1	1.2%	14	17.1%	0	0%	4	4.9%	0	0%	0	0%	22	26.8%
3 days a week	0	0%	8	80%	0	0%	2	20%	0	0%	0	0%	0	0%	0	0%	3	30%
9 days in 2 weeks (9/80)	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
7 days in 2 weeks	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Other	4	36.4%	5	45.5%	0	0%	0	0%	0	0%	1	9.1%	0	0%	0	0%	1	9.1%

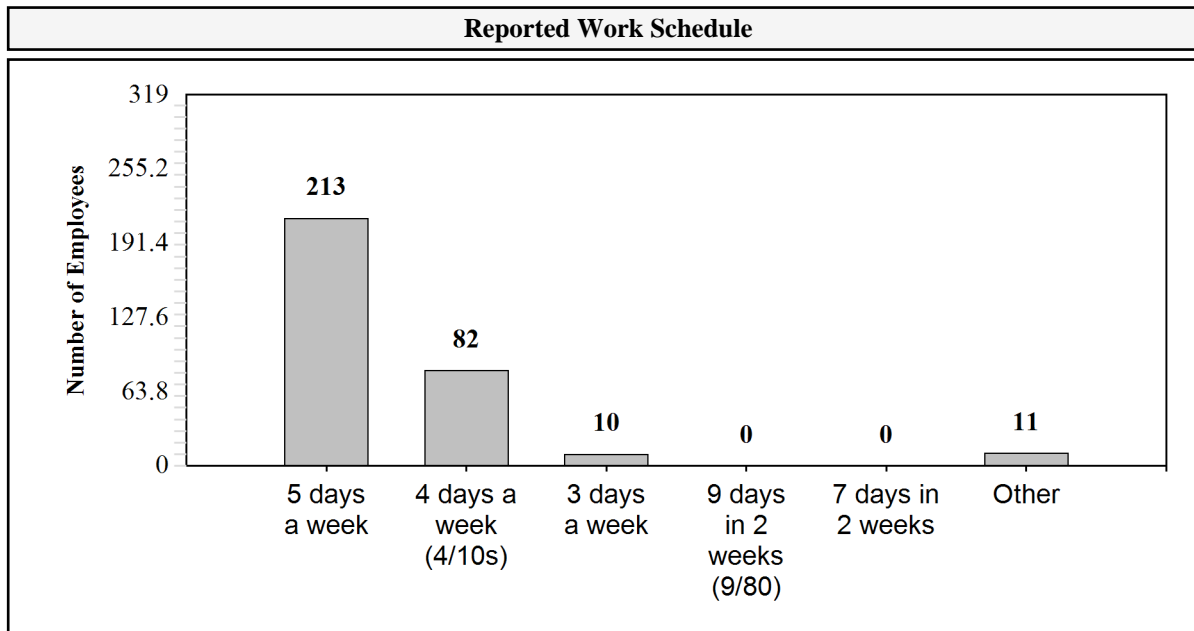
## Count by Occupancy of Carpools, Vanpools, and Motorcycles

**Q.4b** If you used a carpool or vanpool as part of your commute, or if you ride a motorcycle, how many people (age 16 or older) are usually in the vehicle?

Ridesharing Occupancy	Mode	Response Count
1	Motorcycle	13
2	Motorcycle	0
2	Carpool	144
3	Carpool	31
4	Carpool	5
5	Carpool	0
>5	Carpool	2
<5	Vanpool	2
5	Vanpool	9
6	Vanpool	0
7	Vanpool	4
8	Vanpool	4
9	Vanpool	0
10	Vanpool	13
11	Vanpool	12
12	Vanpool	10
13	Vanpool	0
14	Vanpool	0
15	Vanpool	0

## Reported Work Schedule - All Employees

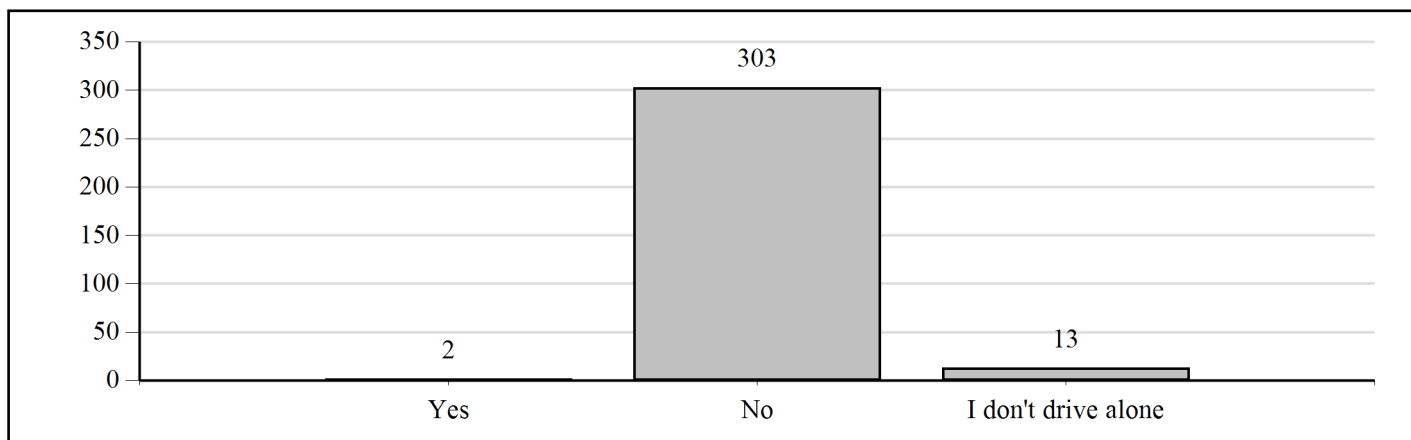
Q.5 Which of the following best describes your work schedule?



Reported Work Schedule	# Of Responses	% Of Employees
5 days a week	213	67.4%
4 days a week (4/10s)	82	25.9%
3 days a week	10	3.2%
9 days in 2 weeks (9/80)	0	0%
7 days in 2 weeks	0	0%
Other	11	3.5%

## Parking and Telework

**Q.9: On the most recent day that you drove alone to work, did you pay to park? (Mark "yes" if you paid that day, if you prepaid, if you are billed later, or if the cost of parking is deducted from your paycheck.)**



**Q.10: How many days do you typically telework?**

Telework Frequency	# of Responses	% of Responses
No Answer/Blank	2	0.6%
I don't telework	219	68.9%
Occasionally, on an as-needed basis	74	23.3%
1-2 days/month	13	4.1%
1 day/week	6	1.9%
2 days/week	1	0.3%
3 days/week	3	0.9%

## Reasons for driving alone to work/not driving alone to work

**Q11. When you do not drive alone to work, what are the three most important reasons?**

Question Text	# of Responses	% of Responses
To save money	114	18.3%
Financial incentives for carpooling, bicycling or walking.	98	15.7%
To save time using the HOV lane	84	13.5%
Personal health or well-being	66	10.6%
Environmental and community benefits	62	9.9%
Other	48	7.7%
I have the option of teleworking	44	7.1%
Driving myself is not an option	31	5.0%
Free or subsidized bus, train, vanpool pass or fare benefit	27	4.3%
Emergency ride home is provided	21	3.4%
Cost of parking or lack of parking	14	2.2%
Preferred/reserved carpool/vanpool parking is provided	10	1.6%
I receive a financial incentive for giving up my parking space	5	0.8%

**Q12. When you drive alone to work, what are the three most important reasons?**

Question Text	# of Responses	% of Responses
I like the convenience of having my car	205	26.4%
Riding the bus or train is inconvenient or takes too long	200	25.8%
Family care or similar obligations	102	13.1%
Other	79	10.2%
My commute distance is too short	73	9.4%
Bicycling or walking isn't safe	58	7.5%
My job requires me to use my car for work	37	4.8%
I need more information on alternative modes	20	2.6%
There isn't any secure or covered bicycle parking	2	0.3%

**Employee Transit Use - All Employees**

**Q 13. Please indicate the number of one-way transit or walk-on ferry trips you took last week on each system listed below (for any purpose, not just getting to and from work). Please select "Other" if your transit isn't listed.**

Trips/Week	Employees Making This Many Transit Trips in a Week									
	Community Transit	Everett Transit	Intercity Transit	King County Metro	Kitsap Transit	Pierce Transit	Sound Transit	Whatcom Transportation Authority	Ferry as Walk-On	Other
1	0	0	0	4	0	0	3	0	2	7
2	0	0	0	3	0	0	2	0	1	3
3	0	0	0	1	0	0	2	0	0	0
4	1	0	0	2	0	0	0	0	0	2
5	0	0	1	0	0	0	0	0	0	1
6	0	0	0	0	0	0	1	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	1	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
11 or more	0	0	1	1	0	0	0	0	0	0
# Of Employees using Transit	1	0	2	12	0	0	8	0	3	13
Total One-Way Transit Trips Per Week	4	0	21	40	0	0	19	0	4	26

**Employee Transit Use - Affected Employees**

**Q 13. Please indicate the number of one-way transit or walk-on ferry trips you took last week on each system listed below (for any purpose, not just getting to and from work). Please select "Other" if your transit isn't listed.**

Trips/Week	Employees Making This Many Transit Trips in a Week									
	Community Transit	Everett Transit	Intercity Transit	King County Metro	Kitsap Transit	Pierce Transit	Sound Transit	Whatcom Transportation Authority	Ferry as Walk-On	Other
1	0	0	0	4	0	0	3	0	2	6
2	0	0	0	3	0	0	1	0	1	3
3	0	0	0	1	0	0	2	0	0	0
4	1	0	0	2	0	0	0	0	0	2
5	0	0	1	0	0	0	0	0	0	1
6	0	0	0	0	0	0	1	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	1	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
11 or more	0	0	1	1	0	0	0	0	0	0
# Of Employees using Transit	1	0	2	12	0	0	7	0	3	12
Total One-Way Transit Trips Per Week	4	0	21	40	0	0	17	0	4	25

## Commute Mode By ZipCode for All Employees

Q8. What is your home zip code?

Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
	2	0.63%	9	0	0	0	0	0	0	0	0	0	0	0	0
18970	1	0.31%	0	0	0	0	0	0	0	0	5	0	0	0	0
34208	1	0.31%	0	0	0	0	0	0	0	0	5	0	0	0	0
97008	1	0.31%	4	0	0	0	0	0	0	0	0	0	0	0	0
98001	2	0.63%	6	4	0	0	0	0	0	0	0	0	0	0	0
98002	1	0.31%	4	0	0	0	0	0	0	0	0	0	0	0	0
98003	1	0.31%	0	4	0	0	0	0	0	0	0	0	0	0	0
98004	2	0.63%	5	0	0	0	4	0	0	0	0	0	0	0	0
98005	6	1.89%	24	5	0	0	0	0	0	0	1	0	0	0	0
98006	4	1.26%	11	1	4	2	0	0	0	0	0	0	0	0	0
98007	9	2.83%	41	0	0	0	0	0	0	0	0	0	0	0	0
98008	4	1.26%	19	0	0	0	0	0	0	0	0	0	0	0	0
98011	3	0.94%	14	0	0	0	0	0	1	0	0	0	0	0	0
98012	14	4.40%	58	6	4	0	0	0	0	0	0	0	0	0	0
98014	2	0.63%	7	2	0	0	0	0	0	0	0	0	0	0	0
98019	3	0.94%	13	0	0	0	0	0	0	0	0	0	0	0	0
98020	1	0.31%	4	1	0	0	0	0	0	0	0	0	0	0	0
98021	6	1.89%	28	0	0	0	0	0	1	0	0	0	0	0	0
98023	1	0.31%	0	4	0	0	0	0	0	0	0	0	0	0	0
98024	2	0.63%	3	8	0	0	0	0	0	0	0	0	0	0	0
98026	1	0.31%	5	0	0	0	0	0	0	0	0	0	0	0	0
98027	2	0.63%	6	0	0	0	0	0	0	0	0	0	0	0	0
98028	10	3.14%	45	0	0	0	0	0	2	0	0	0	0	0	5
98029	2	0.63%	11	0	0	0	0	0	0	0	1	0	0	0	0
98030	2	0.63%	6	0	0	0	0	0	0	0	0	0	0	0	0
98031	3	0.94%	7	5	0	0	0	0	0	0	2	0	0	0	0



98032	1	0.31%	5	0	0	0	0	0	0	0	0	0	0	0	0
98033	9	2.83%	33	12	0	0	0	0	1	0	0	0	0	0	0
98034	22	6.92%	86	12	0	0	0	0	0	1	2	0	1	0	0
98036	10	3.14%	31	12	0	0	0	0	2	0	0	0	0	0	0
98037	2	0.63%	9	0	0	0	0	0	0	0	0	0	0	0	0
98038	1	0.31%	0	0	5	0	0	0	0	0	0	0	0	0	0
98042	1	0.31%	0	5	0	0	0	0	0	0	0	0	0	0	0
98043	2	0.63%	10	0	0	0	0	0	0	0	0	0	0	0	0
98045	2	0.63%	5	5	0	0	0	0	0	0	0	0	0	0	0
98050	1	0.31%	5	0	0	0	0	0	0	0	0	0	0	0	0
98052	13	4.09%	63	0	0	0	0	0	0	0	0	0	0	0	0
98053	12	3.77%	50	5	0	3	0	0	0	0	0	0	0	0	0
98056	5	1.57%	23	0	0	0	0	0	0	0	0	0	0	0	0
98057	2	0.63%	8	1	0	0	0	0	0	0	1	0	0	0	0
98058	4	1.26%	12	3	4	1	0	0	0	0	1	0	0	0	0
98059	3	0.94%	1	5	8	0	0	0	0	0	0	0	0	0	0
98065	2	0.63%	6	0	0	0	0	0	0	0	0	0	0	0	5
98072	8	2.52%	37	0	0	0	0	0	0	0	1	0	0	0	0
98074	3	0.94%	9	4	0	1	0	0	0	0	0	0	0	0	0
98075	1	0.31%	6	0	0	0	0	0	0	0	0	0	0	0	0
98077	5	1.57%	20	0	0	0	0	0	0	0	0	0	0	0	0
98087	3	0.94%	12	1	0	0	0	0	0	0	0	1	0	0	0
98092	2	0.63%	7	0	0	0	0	0	0	0	3	0	0	0	0
98103	4	1.26%	13	0	0	2	0	0	0	0	0	4	0	0	0
98107	1	0.31%	4	1	0	0	0	0	0	0	0	0	0	0	0
98108	4	1.26%	18	0	0	0	0	0	0	0	0	0	0	0	0
98109	1	0.31%	0	4	0	0	0	0	0	0	1	0	0	0	0
98115	3	0.94%	7	4	0	0	0	0	0	0	0	0	0	0	0
98116	1	0.31%	5	0	0	0	0	0	0	0	0	0	0	0	0
98117	1	0.31%	2	3	0	0	0	0	0	0	0	0	0	0	0
98118	2	0.63%	4	5	0	0	0	0	0	0	0	0	0	0	0
98119	2	0.63%	9	0	0	0	0	0	0	0	1	0	0	0	0
98125	1	0.31%	5	0	0	0	0	0	0	0	0	0	0	0	0
98136	1	0.31%	5	0	0	0	0	0	0	0	0	0	0	0	0
98144	1	0.31%	3	0	0	0	0	0	0	0	0	0	0	0	0
98146	2	0.63%	4	3	0	0	0	0	0	0	0	0	0	0	0
98155	7	2.20%	29	1	0	0	0	0	4	0	0	0	0	0	0



98168	4	1.26%	16	0	4	0	0	0	0	0	0	0	0	0	0
98177	1	0.31%	5	0	0	0	0	0	0	0	0	0	0	0	0
98178	1	0.31%	0	4	0	0	0	0	0	0	0	0	0	0	0
98188	1	0.31%	0	4	0	0	0	0	0	0	0	0	0	0	0
98201	6	1.89%	15	3	8	1	0	0	0	0	0	0	0	0	0
98203	4	1.26%	8	8	0	0	0	0	0	0	0	1	0	0	0
98204	5	1.57%	9	10	2	0	4	0	0	0	0	0	0	0	0
98208	7	2.20%	16	6	6	0	0	0	4	0	0	0	0	0	0
98223	3	0.94%	11	0	0	0	0	0	0	0	0	5	0	0	0
98233	1	0.31%	5	0	0	0	0	0	0	0	0	0	0	0	0
98251	3	0.94%	10	4	0	0	0	0	0	0	0	0	0	0	0
98252	2	0.63%	9	0	0	0	0	0	0	0	0	0	0	0	0
98258	10	3.14%	41	4	0	0	0	0	0	0	0	0	0	0	0
98270	4	1.26%	13	5	0	0	0	0	0	0	0	1	0	0	0
98271	1	0.31%	4	0	0	0	0	0	0	0	1	0	0	0	0
98272	5	1.57%	24	0	0	0	0	0	0	0	0	0	0	0	0
98274	1	0.31%	4	0	0	0	0	0	0	0	0	1	0	0	0
98275	1	0.31%	1	4	0	0	0	0	0	0	0	0	0	0	0
98282	2	0.63%	9	0	0	0	0	0	0	0	0	0	0	0	0
98290	7	2.20%	26	0	4	0	0	0	0	0	0	0	0	0	0
98294	2	0.63%	10	0	0	0	0	0	0	0	0	0	0	0	0
98296	8	2.52%	35	0	0	3	0	0	0	0	0	0	0	0	0
98335	1	0.31%	4	0	0	0	0	0	0	0	0	0	0	0	0
98370	1	0.31%	0	0	0	0	0	0	0	0	1	0	4	0	0
98374	2	0.63%	5	4	0	0	0	0	0	0	1	0	0	0	0
98387	1	0.31%	3	0	0	0	0	0	0	0	0	0	0	0	0
98390	1	0.31%	4	0	0	0	0	0	0	0	0	0	0	0	0
98408	1	0.31%	4	0	0	0	0	0	0	0	0	1	0	0	0
98513	1	0.31%	0	0	5	0	0	0	0	0	0	0	0	0	0